

Technical Data



METALUBE®

Alumol™ “E” series

High performance aluminium wire drawing lubricants

Description

The Alumol “E” series products are a range of high performance lubricants specifically developed for the drawing of aluminium and aluminium alloy wire. All of the products contain high purity base oil and the latest antioxidant technology to minimise thermal degradation and significantly extend service life. The optimised combination of natural lubricity additives and synthetic polymers provide good viscosity/temperature behavior and exceptional film strength to deliver outstanding surface finish and die life.

Alumol 145E and Alumol 195E are both particularly suitable for drawing rod to intermediate sizes on high speed slip machines. The relatively low viscosity for products of this type gives improved separation of fines and aids pumpability. The higher viscosity grades should be used for more difficult alloys or where operating temperatures are higher.

Features and benefits

- Provide optimum hydrodynamic and boundary lubrication to protect dies and provide outstanding surface finish on drawn wire
- Excellent resistance to thermal degradation extends service life
- Relatively low viscosity aids separation of aluminium fines

Recommended instructions for use

Alumol “E” products should be used as supplied. Systems should be cleaned and if possible flushed to remove any previous lubricants or aluminium fines. A low viscosity flushing oil such as Metaclean™ FAM is preferred, aqueous cleaners should not be used.

Although Alumol “E” products are capable of absorbing small quantities of water care should be taken to minimise possible sources of contamination – check heat exchangers for leaks, store feedstocks in warm dry areas to prevent formation of condensation etc.

During use Alumol “E” products will increase in viscosity – predominantly due to the build-up of aluminium fines. To counteract this thickening effect and extend the service life of the lubricant Metacare VRX should be used (see separate data sheet for further information).

The recommended operating temperature for Alumol “E” products is 35 – 55°C.

Refer to the product safety data sheet for guidance on safe handling, storage and disposal.

Storage

Store Alumol “E” products out of direct sunlight and protect from frost. Storage temperature should be controlled to between 5°C and 35°C.

The most up to date shelf-life information for Metalube products can be found on the certificate of analysis issued at the time of manufacture.

Pack sizes

Product	Code	Pack
Alumol 145E	F209410	205 Ltr barrel
	F209420	1000 Ltr IBC
Alumol 195E	F209510	205 Ltr barrel
	F209520	1000 Ltr IBC

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Property	Test method	Alumol 145E	Alumol 195E
Appearance	MSTM 1	Light brown oil	Light brown oil
Kinematic viscosity at 40°C	MSTM 27	138 cSt	177 cSt
Kinematic viscosity at 100°C	MSTM 28	17 cSt	21 cSt
Flash point	COC	>195°C	>195°C
Density at 20°C	MSTM 23	0.89 g.cm ⁻³	0.89 g.cm ⁻³

Note: these values are typical only and do not constitute a specification

Limited warranty information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective and fully satisfactory for the intended end use. We accept no liability for any loss and/or damage arising from a failure to store our products in accordance with the information contained in this technical sheet. Metalube Group's sole warranty is that our products will meet their quality control specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. To the fullest extent permitted by applicable law, Metalube Group specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Metalube Group disclaims liability for any incidental or consequential damages.

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